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ABSTRACT

This document describes the development and implementation of a computer based registration and scheduling information system at Northern Illinois University. Because of personnel shortages, the University sought and received help from commercial computer firms. Implementation of scheduling, registration, and billing systems was accomplished in a relatively short period of time, and the few bugs were eliminated quickly. The report describes in some detail the five registration modules: (1) transaction input module, (2) course schedule maintenance, (3) course request, (4) scheduling module, and (5) add/drop module. (RA)

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Registration and Scheduling at NIU (Implementing Commercial Software at a Large University)

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THE OHIO STATE UNIVERSITY COLUMBUS, OHIO

REGISTRATION AND SCHEDULING AT NIU
(Implementing Commercial Software at a Large University)

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Between January and September, 1971, Northern Illinois University with the aid of Systems and Computer Technology Corporation implemented a computer based registration and scheduling system. The University had experienced a mushrooming growth in the previous twelve years, from 6,000 students in 1959 to 23,000 students in 1971. Serving both undergraduate and graduate students over that period of time was a very sophisticated and comprehensive Tabulating (Tab) system that was designed to operate efficiently for an enrollment of up to ten to twelve thousand students. As the quantity of data and demands for information and service increased, it became more and more obvious that the Tab system was not able adequately to handle the needs of the University.

NIU acquired its first computer in 1963, an IBM 1620, to handle some basic faculty research needs. This machine was also used for a few administrative processes, e.g., grade actions and grade reports, but the bulk of registration processing remained on Tab equipment. Between the years 1966 and 1970, other machines were acquired: an IBM 360-20 supported a 360-40 for all University data processing needs; then the 40 was exchanged for a 50 and later the 50 for a 67 (OS only). The Model 20 was retained for card processing. Even with all the computer hardware available, the Tab system was still the central one for all student information processing.

Repeated attempts were made in 1968 and thereafter to put more of the student data processing on the computer. Part of this was accomplished with the development of Digitek forms to input a limited number of student data elements, e.g., parent's and local addresses, student's major and degree, other colleges attended, etc. Interfacing the data from the tape files created from this input with the data collected via the Tab System was difficult and disruptive because adequate time for coordination was not given to the effort. Later when there was an attempt to modify coding and other data structures that were key elements in the Tab system, we realized that continuing to peck away at the Tab system was not the way to improve the flow of student information.

A University Student Records Committee was formed in late 1969 to design a new system. It began by analyzing the student data needs of the University and developed a student data dictionary. Analysis was also made of the existing input flows and agreement was reached on how and when the data was to enter the new system. Detailed analysis of the output reports was in progress in late 1970, and we hoped to be able to define a total system and recommend priorities for implementation of various subsystems, including registration and scheduling.

However, in the Fall of 1970, the registration and production of reports from the Tab system were especially troublesome - late and inaccurate. The academic departments demanded immediate action and stated that they could not wait around another year or two for implementation of a new student record system, specifically a new registration process. The Computer Center had only a few systems analysts and programmers that could be used for such a project, but even these spent much of their time on maintenance of programs that were supportive of the Tab system. In essence, there were too few personnel available for development on the scale necessary to accomplish the immediate objective of the University - "to have a computer supported scheduling and registration system implemented by the Fall of 1971." It was felt there was no choice but to look for help outside the University.

Several software firms were contacted for solving our problem. Preliminary proposals were secured from each organization. It was the judgment of the NIU ad hoc committee, consisting of key personnel most closely concerned with registration and student records, that Systems & Computer Technology (SCT) Corporation of West Chester. Pennsylvania offered us the needed resources and would be most likely to have the registration system we desired operative by fall 1971. SCT was also the least expensive of the several proposals received. It was agreed that along with the actual implementation of a batch oriented subsystem of scheduling and registration tailored to NIU's needs, there would be implemented a basic student billing system. Planning for the development of other subsystems, e.g., admissions, grades, student data base, financial aids, etc., would also be included.

It was recognized by University officials and SCT that there would be many interface, communication, and procedural problems in developing new systems in such a short span of time. SCT's commitment included the assignment of an experienced consultant, Mr. Samuel Mongiello. NIU's commitment included the formation of a Project Team with Mr. Jack Hall, Assistant Director of Computer Services, appointed as the Project Leader. By March 1, in addition to the two authors of this paper, four other systems and programming personnel were assigned full time to the project: Mrs. Barbara Wright, Mr. Stephen Anderson, Mr. Charles Hebert, and Mrs. Marcia Perry. The function of the Project Team was a combination of development and production covering the following:

1. Coordinate the total effort - translate objectives and needs, monitor systems and programming development, design output layouts, run the system, etc.
   a. be central contact with the SCT Corporation
   b. be liaison with other administrative offices: Provost, Academic Deans, department heads, faculty, bursar, and registration personnel
   c. interface with Tabulating system, which was keyed to a six digit alpha number and also a six digit permanent number

2. Develop capability to update and access the Student Information Record (SIR) file so that needed data items would be available to the SCT files and other defined reports could be run when needed.
3. Assist registration personnel with the implementation and maintenance of the new system
4. Design all input forms used by students and office personnel needed to move data; develop necessary documentation to use the forms

Implementation Timetable and Associated Problems:

Fall course offerings were received from the departments in early March. Because the course master file was not ready in time to meet the printer's deadline, the Scheduling Office went to press with a typed input for the University Class Schedule. Needless to say, by having two separate operating documents, the printed one for the students and faculty and a computer file for processing transactions, numerous problems were created. Having several duplicate course reference numbers in the printed class schedule was only one of many.

For the Spring Semester, 1972, we were able to use the computer printout (Schedule of Recitations) for the University schedule, and we also developed internally a University Curriculum subsystem which combines the basic course data with variables of meeting time, place, instructor, etc., in order to build the spring schedule.

The various output reports generated from Course Schedule Maintenance were distributed and discussed with both registration personnel and the academic departments. Because documentation was not available, the Project Team prepared basic documentation for the various reports. These procedures were followed for each successive module.

Using the Course Request forms for an Advance Registration was a relatively easy task for the students. However, because of the newness of the system, new forms and new controls, a member of the Project Team was present during the registration periods to answer questions and interpret various segments of the sectioning process that were yet to occur, e.g., what would really happen if a course was marked as a "priority."

After all the forms were in and the course request file was built, a review of the Course Request Audit trail revealed that there were about 200 students for whom there was no information on the existing NIU Student Information Record (SIR) file, or at least not by the social security number (SSN) that was used for the match (SCT "interfaced" their system with the NIU-supplied SIR file). This intensified the need for locating the source documents to resolve the problems. Other problems, e.g., time conflicts, unsatisfied link requirements, incorrect credit

type requests, etc., were flagged, automatically by the course request module for resolution before sectioning was run.

Sectioning for the first group of 13,000 students occurred in mid-July, and schedules were mailed to the students. Using the student sectioning algorithms in the Scheduling Module, approximately 85% of the students received full schedules. The other students were notified that they could call or come to campus the last week of July to complete their schedules. About 1,200 students responded. During June and July the second group of Course Requests was being collected from new freshmen and new transfer students going through summer orientation program. In mid-August the second sectioning occurred for 6,200 students. This time, because there were many closed and cancelled classes, and departments were not able to adjust their offerings to meet the requests of the students, only 55% of those sectioned received full schedules. Again, a schedule completion period during the last week of August allowed some 1,800 students to complete their schedules. The method of updating was via the Add/Drop module.

The Billing module was the last one implemented, and because of several problems, some students were inadvertently purged from the Enrollment File early in the semester, and they had to be reinstated later.

General Registration was scheduled from September 8 - 10 and over 4,000 students were processed through the Add/Drop module for processing. Because of the short time period between this registration and the first day of classes, and the very limited number of open classes, it was decided that the Course Request-Sectioning process would not be appropriate. Also, in the Add/Drop process, students could know immediately what their schedules were; they did not have to wait for a sectioning run. In addition to the regular registrants, there were some 1,300 other students who had received partial schedules previously or who had not taken care of their changes before.

The same kind of problem encountered with Course Request (see above) occurred with Add/Drop: because of mismatched SSNs all the original Add/Drop forms had to be sorted by SSN to identify students' schedules.

Late Registration and Add/Drop during the first two weeks of the semester went smoothly, and by the end of the period (after purging those who had not completed payment) there were nearly 23,000 students on the Enrollment File. While preparing one of the enrollment reports we found a program bug which indicated there was about a 1000% increase in the number of full-time evening students enrolled. This error was corrected within a few days and we had the files established for various reporting functions by the end of the third week of the semester.

During the first semester, there was a comprehensive review of the system, and evaluation meetings were held with academic department heads. Final documentation was received from SCT, and analysis of needed modifications became one of the main occupations of the systems group. The original Project Team was in part dissolved when the Project Leader returned to the Computer Center to become its acting director. The Registrar's Office acquired a few more systems planners to carry on the work. Other Computer Center personnel were trained to take over the machine processing and the systems group in the Registrar's Office continued to serve as liaison and coordinator of the system.

Description of the Five System Modules

Module 1: TIM (See Exhibit A, Flowchart)

The Transaction Input Module (TIM) is the only channel of transaction input to the other modules. It accepts transactions in the form of magnetic tape or punched cards, and formats, sorts and validates transactions for processing in the Course Schedule Maintenance, Course Request, and Add/Drop Modules. Transactions can be submitted for one or more modules at the same time, whether the transactions are to be used immediately or at a later date. The module consists of three programs: Format Transactions, Sort Transactions, and Validate Sorted Transactions.

The Format Transactions program processes input transactions for the Course Schedule Maintenance, Course Request Processing, and Add/Drop Processing Modules. The program reformats input transactions into an internal system format and writes them to a magnetic tape file. The program produces two reports: a control report which lists input and output file counts, and an error report which lists all transactions rejected for unrecognizable transaction codes.

The Sort Transactions program sequences the Input Transaction File into proper update sequence. This program produces the Sorted Transaction File which contains input transactions grouped by general transaction type, and within grouping, in update sequence.

The Validate Transactions program validates each input transaction for proper syntax and format. The program writes valid transactions to the proper output tape file, depending on which module processes the transaction. The program produces an error report which lists all transactions with syntax or format errors. The report highlights each error in each invalid transaction. The program also produces a control report which lists input and output file counts by transaction type.

TIM also is set up to accept Batch Control Cards. These cards are used to assign a specific batch number to each transaction. For example, a certain transaction is assigned a batch and sequence number of "D013," which would be the thirteenth card in batch "D." These batch control numbers are carried through on audit trails in Course Request and Add/Drop. This enables office personnel to retrieve source documents more readily.

Module 2: CSM (see Exhibit B, Flowchart)

The Course Schedule Maintenance (CSM) Module is the focal point of the system. CSM transactions (see Exhibit C) enter the system through TIM and are passed to the CSM Update program. This program takes the transactions from the CSM Transaction file (in TIM) and applies them to the CSM Master File to produce the updated version of the file. The update program permits any field in the course schedule record to be modified, and allows records to be added to or deleted from the CSM master file. This file is built for each semester and contains the following data elements:

1. College, department, course number, and course title
2. Instructor (plus a code for multiple instructors)
3. Course Reference Number (unique number assigned to each section)
4. Class capacity and limits
5. Restriction codes (e.g., sex, majors only, etc.)
6. Credit hours
7. Material fees
8. Linked courses (e.g., lab and lecture)
9. Alternate courses (e.g., Finance 459 and Accy. 459 offer parallel course outlines)
10. Pre-requisites
11. Class meeting descriptions (days, time, room, building)
12. Course comment field

In order to ease the data entry problem, NIU developed internally a Curriculum Master File which contains all the offerings in the NIU catalog. Basically, the data elements are similar to the CSM Master File except for variables, e.g., class meeting time, class capacity, instructor, etc.

Several weeks before the semester begins, the academic departments submit variable information for each course and section. The Full Course Number (college, department, course and section numbers) and variable information are submitted on preprinted coding sheets from each department. The Scheduling Office receives the information and checks for coding errors. After error corrections are made, the valid transactions are processed through the Curriculum Master Match Program. This program compares on full course number and combines the variable information from the academic departments with the course "constants" in the Curriculum Master File. This matched output goes through TIM and CSM

Module to produce the semester course offerings (CSM) file. The match program is used only in the first departmental input stage. All subsequent modifications due to student demand during registration periods (additions, cancellations, capacity changes, etc.) are processed through the "regular" CSM Module described above.

Two of the reports that are produced from CSM are the Schedule Update Audit Trail and the Schedule Update Control Report. The Audit Trail lists the results of every transaction applied and indicates any error condition that occurred during the update process. The Control Report lists input and output file counts and valid and invalid transactions counts by transaction type.

The next program in CSM sorts the report records into proper sequence.

The final program in CSM creates an updated version of the CSM Master File and prints five other reports (via parameter option):

1. Schedule Working Report - It lists the Course Schedule Master File in full course number sequence along with all data for each course section on the file. All updates to the file are checked on this report.
2. Faculty Schedule Report (Exhibit D-1) - It lists the sections taught by each faculty member. Sequencing is by college and department, with each faculty member listed in alphabetical order. Department chairmen use this report to control faculty assignments. Data fields include course title, capacity, meeting times, enrollment, and scheduled contact hours (number of students X credit hours of course).
3. Schedule of Recitations (Exhibit D-2) - It lists data about each section and may be photographed to produce the University Class Schedule.
4. Reference Number Report (Exhibit E-1) - It lists all sections in reference number order. The report is also used to insure non-duplication of reference numbers because the presence of duplicates automatically halts processing in Course Request and Add/Drop.
5. Room Schedule Matrix Report (Exhibit E-2) - This report shows course section assignments by room. A matrix format is used for each classroom with days of the week across the top and meeting times in half-hour increments listed down the side. A warning message is printed to the left of the meeting time if two or more sections are scheduled in the same room at the same time.

Module 3: CR (see Exhibit F, Flowchart)

Course Request (CR) is the vehicle by which students are "polled" as to which classes they wish to take. They may also select a limited number of "Free Time" courses. Academic Department Heads have an opportunity to adjust their course offerings (resources permitting) based on actual student requests before students are scheduled into specific classes. This capability is most desirable and is considered one of the main advantages of this system.

Each student fills out a Course Request form (see Exhibit G-1) and all these forms are keypunched and processed through TIM. Then in Course Request each student who requests a valid course is placed on the request list for the specific section of that course. The main program in this module normally validates the following:

1. Courses that are sex restricted
2. Link requirements (both a lab and lecture must be requested)
3. Pass/Fail requests
4. Time conflicts
5. Overload hours
6. Maximum credit hours

Through a parameter card the errors that are detected by the first four validation checks can be made fatal (i.e. the request is made unschedulable).

The errors from this validation then print out on the Course Request Audit Trail (See Exhibit G-2) so that they can be reviewed for appropriate action by registration personnel.

The Course Request Audit Trail also provides a means by which the CSM Master file can be proofed before other reports are printed and before students are scheduled into classes (i.e. to verify that time conflicts, unsatisfied links, and non-existant section error messages are errors of students' requests rather than errors in the CSM master file). After making the necessary error corrections, Course Request is rerun so the Department Heads receive a more accurate Section Request List and Tally. (See Exhibit H-1 & H-2).

Department Heads are then asked to respond to the Section Request Tally by adjusting their offerings to the course requests of the students. If the number of course requests still exceed the adjusted capacity of the course, the students who have the lowest number of cumulative credit hours will not be scheduled into that course because scheduling is done by cumulative credit hours. For permit courses (restricted enrollment) Department Heads can compare their permit lists to the Section Request Lists and then administratively delete the course requests of any students who did not obtain permission to enroll in that class.

The CSM Master File is then updated and Course Request is run again to reflect the necessary changes in course offerings and corrected requests. This final Course Request run creates the Registration file which is usually the only input file to the Scheduling Module.

Module 4: SCH (See Exhibit I, Flowchart)

The Scheduling (SCH) Module schedules students who have gone through the Course Request Module. Input to the Scheduling Module may consist of two files: the Registration File produced by the Course Request Processing Module, and if 'rolling' scheduling is used, the Enrollment File from the previous scheduling run. The Registration File contains the latest version of the CSM Master File and all of the course requests generated by students during the current registration process. The purpose of the Scheduling Module is to satisfy completely as many Course Requests as possible, given certain restrictions such as course capacities, limits, link requirements, etc. Certain restrictions are built into this module and others are specified by parameter cards submitted during the prior Course Request processing.

The key in the scheduling process is the reference number. It is a unique four digit number which refers to a particular section of a particular course. The queuing of students in all four of the algorithmic segments is determined by the total cumulative hours of the student.

The main section of the Scheduling Module consists of a series of four algorithm segments. Segment 1 is the Original Request section. It attempts to satisfy original requests up to the section limit (percent of capacity which may be determined by the department). All student schedules are passed through this Segment initially. Then all students with unsatisfied requests are individually passed through all other segments until either a full schedule results or all scheduling attempts are exhausted.

Segment 2 is System Generated Alternate Section Scheduling. First, an attempt is made to satisfy requested courses by generating an alternate section which meets at the same time as the requested section. It then attempts to satisfy requested courses by generating an alternate section which does not conflict with the already scheduled section requests and has the most seats remaining (leveling). Next an attempt is made to satisfy requested courses by generating an alternate section which does not conflict with the already scheduled section requests and conflicts least with all other open sections (no leveling). Segment 3 is Priority Course Request Scheduling. It attempts to schedule unsatisfied priority course requests by removing all courses already scheduled and giving the student the priority request, if it is open. If the priority section is closed, then the system looks for other sections of that priority course that might be open, fills the priority course if possible, and then restores as many of the other requests as possible before moving to

Segment 4. Segment 4 is Student Generated Alternate Scheduling. It attempts to schedule specific student requested alternate courses in place of remaining unsatisfied requests. If the requested alternate section is not available, the segment attempts to satisfy student alternate course requests by generating another section of the alternate that does not conflict with the already scheduled sections.

After all students have been processed through the scheduling algorithms, control passes to the report writing stage of the module. One of the primary reports of the Scheduling Module is the Schedule Control Report which lists the control totals of the scheduling process. Information contained on this report includes total number of students scheduled, number of partial and full schedules,number of students with fatals and unschedulable requests, and counts pertaining to the number of student schedules that passed through each of the four segments of the scheduling module.

Parameter controlled reports are Full Student Schedules, Partial Student Schedules (Exhibit J), Scheduled Section Tally, and Scheduled Section Lists.

The Scheduled Section Tally (Exhibit K-1) is a report which lists each course section in full course number sequence giving all the enrollment totals by student classification and the status of each section (i.e., capacity, requests, enrolled, status). This report is a valuable aid in projecting expected capacities of classes, the level (senior, junior, grad., etc.) of students taking the course, whether the enrollment has increased or decreased over the past several semesters,etc.

The Scheduled Section List (Exhibit K-2) prints, by section, each student taking the course along with SSN, name, sex, major, class, request type, credit hours, and credit type. This report is used by the departments and instructors to control the students registering for restricted (Permit Only) courses.

The output file produced from the Scheduling Module is the Updated Enrollment File. This file contains all the information concerned with the total enrollment status for the particular semester.

Module 5: A/D (See Exhibit L, Flowchart)

The Add/Drop (A/D) Module updates the Enrollment File with student course additions, deletions, withdrawals, and credit-type changes. Input to the A/D Module consists of the CSM Master File, the Valid A/D Transaction file (from TIM), the Enrollment File, the Student Information Records (SIR), and several parameter cards. The Output Files from this module are the Updated Enrollment and CSM Master Files. The A/D module is currently being used for all student course transactions after Course Request and Scheduling, including General Registration, Late Registration, A/D period, and throughout the semester.

One of the input parameter cards controls whether certain parameters are to be validated and/or made fatal (unschedulable). Sex restriction, link requirements, pass/fail, time conflicts, unsatisfied link requirements, and overload credit hours are the parameters which Registration controls.

In filling out the A/D forms (Exhibit M-1), Registration checks the courses requested to insure that the course is open. If the course is closed the departments may give written approval to Registration to allow the student to register for the closed course. This is necessary since the A/D module does not check for closed course requests. Once the A/D form has been approved by Registration, the student will be enrolled in the section he requested.

There are several reports associated with the A/D module. The A/D Control Report, which lists input and output file counts and counts of transactions by transaction type, is always printed. Four other outputs are optional and are controlled by a parameter card: A/D Update Audit Trail, Scheduled Section List, Scheduled Section Tally, and Student Schedules.

The A/D Update Audit Trail (Exhibit M-2) lists each transaction read by the program. This report also lists the entire schedule of each student affected by a transaction and/or an error condition. The Registration Office uses this report to monitor changes in the Enrollment File and to identify those students for whom further corrective action is required. The Scheduled Section List, Scheduled Section Tally, and Student Schedules are exactly the same as the outputs of Scheduling.

System Requirements and Limitations

Currently the largest program requires 230/K, (NIU blocking factors are large to take advantage of existing hardware), four tape drives, a disk drive, card reader, and printer. The software required by this system are IBM 360 OS, COBOL (level F), assembler, and the Sort D (utility).

NIU's registration and scheduling system is subject to the following restrictions:

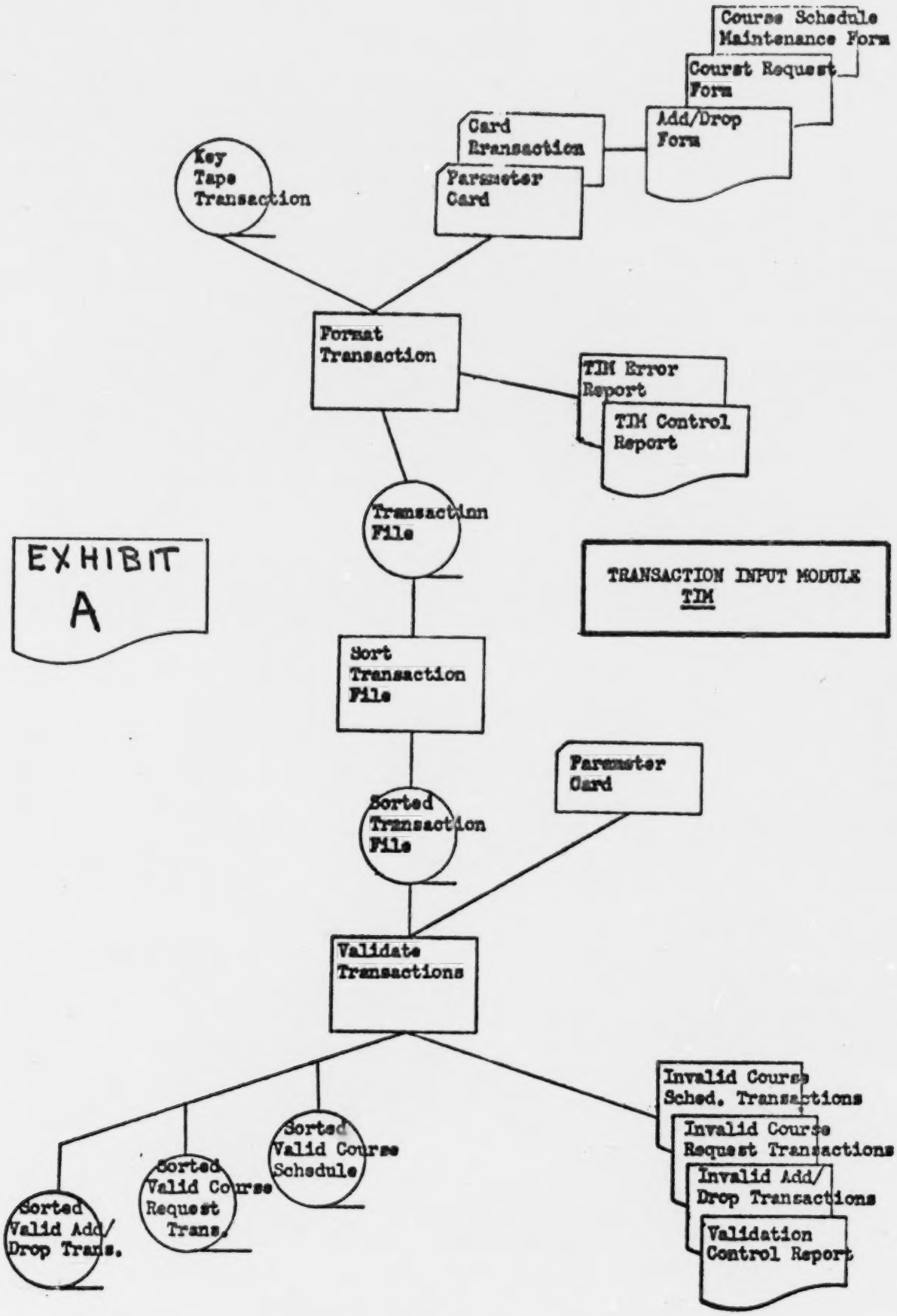
1. Maximum of 32 student course requests including alternates
2. Only one alternate course request per original request
3. Maximum section capacity of 998
4. Course sections must be requested by use of four digit reference number within the range 0001-9999
5. Maximum of 10 class meetings per week for each course section
6. Maximum of six class days - Monday through Saturday
7. Maximum of 16 class hours per class day
8. Time conflict resolution no finer than 15 minutes (a proposed modification will change this to 10 minutes)

Evaluation

NIU's experience with the Systems and Computer Technology Corporation in developing and implementing six modules (five in scheduling and registration and one in billing) was a constructive learning experience. In spite of the extreme time pressure, the implementation was successful. Though deadlines were basically met, some decisions had to be made before the problems could be adequately analyzed. A few of the programs were not fully tested before actual use, and complete documentation was not available until after the various modules were implemented. However, these kinds of problems were anticipated. SCT was responsive to our mutual problems and the cooperation we received was exceptional. Because of the many questions and problems that arose when SCT personnel were not on campus, many of the systems and programming problems were explained and resolved over the phone. Also, from their Pennsylvania office SCT found it advantageous to tie into NIU's computer with a terminal to correct and test programs.

In summary, the working relation between NIU and SCT was friendly, stimulating, and mutually respectful. Even with its problems, the implemented system gave the University a "shot in the arm" and has forced a reexamination of many procedures and reports that existed previously. It has also encouraged cooperative efforts in other areas and has emphasized the need for more comprehensive system planning and development in administrative areas at NIU.

EXHIBIT A


Course Schedule Maintenance Form
Course Request Form
Add/Drop Form
Card Transaction
Parameter Card
Key Tape Transaction
Format Transaction
TIM Error Report
TIM Control Report
Transaction File
TRANSACTION INPUT MODULE
TIM
Sort Transaction File
Parameter Card
Sorted Transaction File
Validate Transactions
Invalid Course Sched. Transactions
Invalid Course Request Transactions
Invalid Add/ Drop Transactions
Validation Control Report
Sorted Valid Course Schedule
Sorted Valid Course Request Trans.
Sorted Valid Add/ Drop Trans.

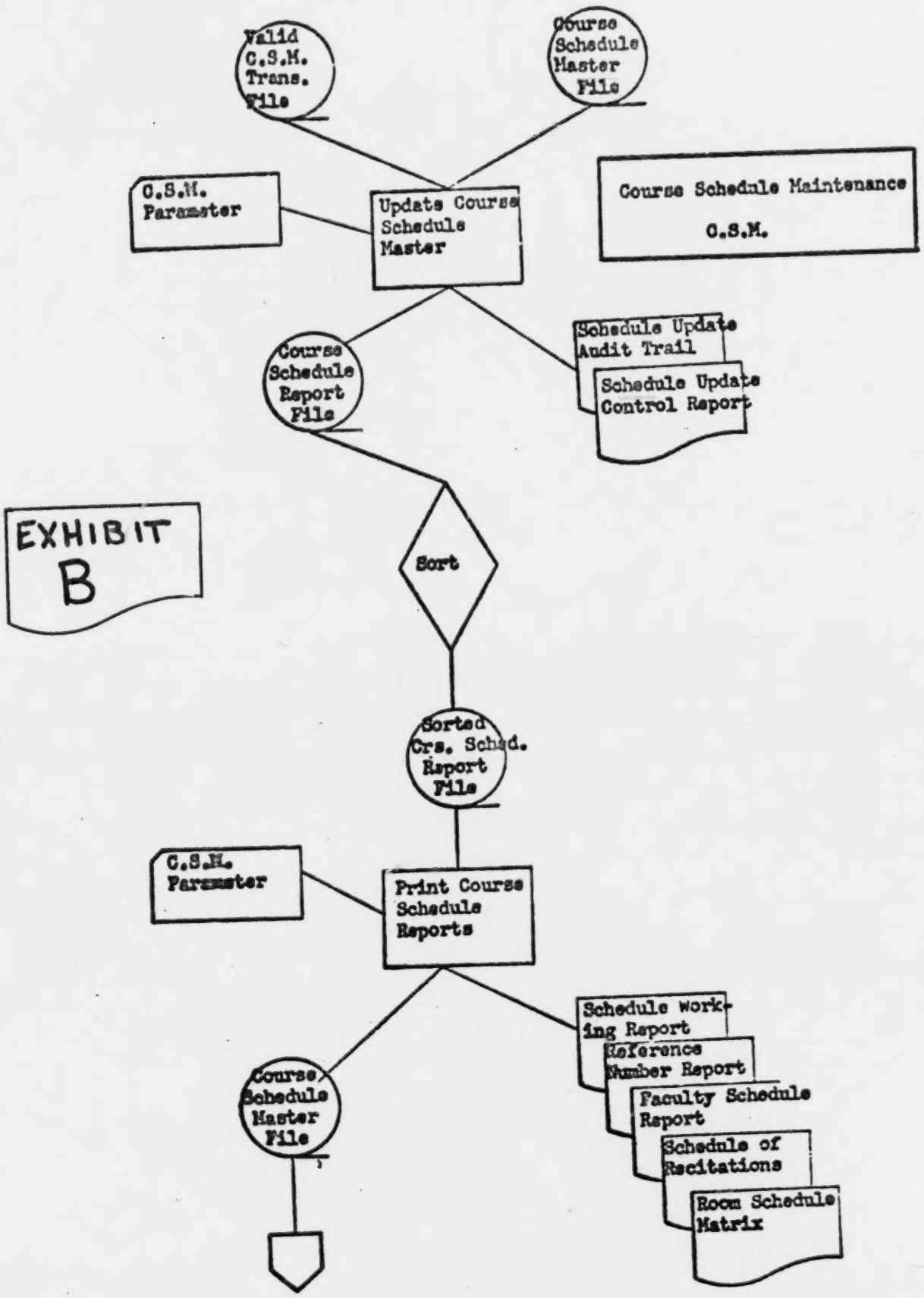

Valid C.S.M. Trans. File
Course Schedule Master File
C.S.M. Parameter
Update Course Schedule Master
Course Schedule Maintenance
C.S.M.
Course Schedule Report File
Schedule Update Audit Trail
Schedule Update Control Report
EXHIBIT B
Sort
Sorted Crs. Sched. Report File
C.S.M. Parameter
Print Course Schedule Reports
Course Schedule Master File
Schedule Working Report
Reference Number Report
Faculty Schedule Report
Schedule of Recitations
Room Schedule Matrix

EXHIBIT C

COURSE SCHEDULE MAINTENANCE

Card ID 1 3 1 (2–4) · Col (5) · Dept. (6–9) · 0 ADD · 1 CHG · 2 DEL · 3 CAN (18)

Course (10–13) · Section (14–17)

Course Title (20–48)

Instructor's Name (50–68) · Instructor Soc. Sec. No. (70–78) · Instr. Rank Code (79)

Prepared By

Checked By

Date Submitted

Card ID 1 0 1 (2–4) · 0 ADD · 1 CHG (18)

Course Ref. No. (20–23) · Capacity (24–26) · Limit (27–29) · Sec Restr. (30) · Credit (31) · Credit Hrs. (32–34) · Special Fees (35–38) · Col. (39) · LINKED COURSE Dept. (40–43) · Course (44–47)

ALTERNATE COURSE Col. (48) · Dept. (49–52) · Course (53–56) · Section (57–60) · Reference No. (61–64) · Pass/Fail (65)

Card ID 1 0 2 (2–4) · 0 ADD · 1 CHG (18)

PRE-REQUISITE ONE Col. (20) · Dept. (21–24) · Course (25–28)

PRE-REQUISITE TWO Col. (29) · Dept. (30–33) · Course (34–37)

Card ID 1 1 1 (2–4) · 0 ADD · 1 CHG (18)

CLASS MEETING ONE Day (20) · Begin Time (21–24) · End Time (25–28) · Bldg. (29 30) · Room (31–34)

CLASS MEETING TWO Day (35) · Begin Time (36–39) · End Time (40–43) · Bldg. (44 45) · Room (46–49)

CLASS MEETING THREE Day (50) · Begin Time (51–54) · End Time (55–58) · Bldg. (59 60) · Room (61–64)

CLASS MEETING FOUR Day (65) · Begin Time (66–69) · End Time (70–73) · Bldg. (74 75) · Room (76–79)

Card ID 1 2 1 (2–4) · 0 ADD · 1 CHG (18)

CLASS MEETING FIVE Day (20) · Begin Time (21–24) · End Time (25–28) · Bldg. (29 30) · Room (31–34)

CLASS MEETING SIX Day (35) · Begin Time (36–39) · End Time (40–43) · Bldg. (44 45) · Room (46–49)

CLASS MEETING SEVEN Day (50) · Begin Time (51–54) · End Time (55–58) · Bldg. (59 60) · Room (61–64)

CLASS MEETING EIGHT Day (65) · Begin Time (66–69) · End Time (70–73) · Bldg. (74 75) · Room (76–79)

1 2 2 (2–4) · 0 ADD · 1 CHG (18)

CLASS MEETING NINE Day (20) · Begin Time (21–24) · End Time (25–28) · Bldg. (29 30) · Room (31–34)

CLASS MEETING TEN Day (35) · Begin Time (36–39) · End Time (40–43) · Bldg. (44 45) · Room (46–49)

1 1 2 (2–4) · 0 ADD · 1 CHG (18)

Comments (20–38)

EXHIBIT D-1

NORTHERN ILLINOIS UNIVERSITY
FACULTY SCHEDULE REPORT

04/22/75 — REPORT R2502
SEMESTER 75/1 — PAGE 0249

DEPT	INSTRUCTOR	SS NO.	FULL COURSE NUMBER / C DEPT CRSE SECT	COURSE TITLE	CREDIT HOURS	CAP LIMIT	ENRL	TYP REQ	FNRL	SCH	STATUS
LIBS	M 0800-0850 LI 141	M 0800-0850 LI 141	4 LIBS 210 - 1	INTRODUCTION TO LIBRARIES	2.0	40	36	U			40
LIBS			4 LIBS 305 - 1	READING INTERESTS OF CHILDREN	3.0	162	145	U			162
LIBS	BRUNDUS R T 1930-2030 LI 141	550342494	4 LIBS 421 - 1	BIBLIOGRAPHY OF THE HUMANITIES	3.0	35	31	G			35
LIBS	BRUNDUS R T 1930-2020 LI 141	550342494 R 1930-2020 LI 141	4 LIBS 552 - 1	SEM IN INFORMATION RETRIEVAL	2.0	35	31	G			35
LIBS	SCHORMANN M M 1300-1350 LI 141	332197530 W 1300-1350 LI 141	4 LIBS 418 - 1 F 1300-1350 LI 141	READING INTERESTS OF ADOLES	3.0	35	31	G			35
LIBS	SCHORMANN M	332197530	4 LIBS 459 - 1	DIRECT INDIV STUDY IN LIB SCI	2.0	35	33	U			35

REF NO.	DEPT	CRSE	SECT	COURSE TITLE	HRS CR.	TIME	ROOM	PRE REQUISITES	COMMENTS / FEES	SEX RESTR.	LINK REQ.	INSTRUCTOR
4879	MATH	2295-	22	CALC & LIN ALG ILLEC *CANCELED*	4.0	0100-0150 MWF 0200-0250 T	RM129 RM329			SC	4975	KULLER RG
4880	MATH	2295-	22	CALC & LIN ALG ILLEC *CANCEL**	4.0	0100-0150 MWF 0200-0250 T	RM129 RM325			SC	4975	KULLER RG
4881	MATH	2295-	23	CALC & ALG LINR AL *CANCELLED*	4.0	0100-0150 MWF 0200-0250 T	RM129 RM325			SC	4975	KULLER RG
4882	MATH	2295-	24	CALC & LIN ALG ILL *CANCELLED*	4.0	0100-0150 MWF 0300-0350 T	RM129 RM325			SC	4975	KULLER RG
4900	MATH	301 -	6	ELEMENTARY STATISTICS & LEC B	3.0	1000-1050 MWF 1000-1050 TH	RM204 RM334	MATH098				MILLER DH
5093	MATH	350 -	1	INTRO TO PROBABILITY & STATIS	3.0	0800-0850 MWF	AL304	MATH211		OR MATH 233		TRAIL S
*5098	MATH	402 -	1	CURRI & INSTR IN ELEM SCH MATH	3.0	1000-1050 MWF	GH235	MATH201		+ JR OR SR STDG		JUNGST D
*5107	MATH	420I-	1	ALGEBRA I	3.0	1000-1050 MWF	AL304	MATH231		OR 233 OR 239		
*5108	MATH	420I-	2	ALGEBRA I	3.0	0200-0250 MWF	WZ120	MATH231		OR 233 OR 239		WUNDERLICH M
*5122	MATH	423I-	1	LINEAR &MULTILINEA*CANCELLED*	3.0	1000-1050 MWF	AD13	MATH420I				MCFADDEN R
*5122	MATH	462 -	1	INTRO TO DISCRETE STRUCTURES	3.0	0200-0250 MWF	RM204A	MATH231 MATH305A				SELFRIDGE
*5125	MATH	470 -	1	METH OF EXPER STAT *CANCELLED*	3.0	0300-0350 MWF	AL304	MATH350		OR 211 & 301		RODINE R
*5126	MATH	499 -	1	LOGIC & MATH FUNC *CANCELLED*	3.0	0730-0845 TTH	RM408	MATH231		OR 233 OR 239		MCCHAREN J
5128	MATH	497S-	2	UNDERGRD READING *CANCELLED*	2.0	0100-0150 TWTHF	RM129			VAR 1-3 HR 2295		KULLER R

EXHIBIT D-2

NORTHERN ILLINOIS UNIVERSITY
REFERENCE NUMBER REPORT

07/14/71 — REPORT 82504
SEMESTER 71/1 — PAGE 0002

REFERENCE NUMBER	C	DEPT	CRSE	SECT	COURSE TITLE	INSTRUCTOR	CR HRS	CAP	LIMIT	TYP	REQ	ENRL	STATUS
0027	0	FREE	TM27-	1	FREE TIME 8AM-10AM TUESDAY			999	999	B			999
0028	0	FREE	TM28-	1	FREE TIME 8AM-10AM WEDNESDAY			999	999	B			999
0029	0	FREE	TM29-	1	FREE TIME 8AM-10AM THURSDAY			999	999	B			999
0030	0	FREE	TM30-	1	FREE TIME 8AM-10AM FRIDAY			999	999	B			999
0103	3	ART	331 -	2A	LITHOGRAPHY(PSEUDO-COURSE)					U			CLOSED
1001	1	ACCY	121 -	1	ELEMENTARY ACCOUNTING I	AVERY	3.0	32	20	U			32
1002	1	ACCY	121 -	2	ELEMENTARY ACCOUNTING I		3.0	32	20	U			32
1003	1	ACCY	121 -	3	ELEMENTARY ACCOUNTING I		3.0	32	20	U			32
1004	1	ACCY	121 -	4	ELEM ACCT 1 *CANCELLED*		3.0			U			CLOSED
1005	1	ACCY	121 -	5	ELEM ACCT 1 *CANCELLED*		3.0			U			CLOSED
1006	1	ACCY	121 -	6	ELEMENTARY ACCOUNTING I		3.0	32	20	U			32
1007	1	ACCY	121 -	7	ELEMENTARY ACCOUNTING I		3.0	32	20	U			32
1008	1	ACCY	121 -	8	ELEMENTARY ACCOUNTING I		3.0	32	20	U			32
1009	1	ACCY	121 -	9	ELEMENTARY ACCOUNTING I		3.0	32	20	U			32
1010	1	ACCY	121 -	10	ELEMENTARY ACCOUNTING I		3.0	32	20	U			32
1011	1	ACCY	121 -	11	ELEMENTARY ACCOUNTING I		3.0	32	20	U			32

EXHIBIT E-1

NORTHERN ILLINOIS UNIVERSITY
ROOM SCHEDULE MATRIX

12/06/71 — REPORT 82505
SEMESTER 7/1 — PAGE 0155

ROOM -HO444	MONDAY C DEPT CRSE SECT	TUESDAY C DEPT CRSE SECT	WEDNESDAY C DEPT CRSE SECT	THURSDAY C DEPT CRSE SECT	FRIDAY C DEPT CRSE SECT	SATURDAY C DEPT CRSE SECT
0800-0830	-	2 NURS 315 -P 1	2 NURS 315 -P 2	2 NURS 315 -P 1	2 NURS 315 -P 2	-
0830-0900	-	2 NURS 315 -P 1	2 NURS 315 -P 2	2 NURS 315 -P 1	2 NURS 315 -P 2	-
0900-0930	-	2 NURS 315 -P 1	2 NURS 315 -P 2	2 NURS 315 -P 1	2 NURS 315 -P 2	-
0930-1000	-	2 NURS 315 -P 1	2 NURS 315 -P 2	2 NURS 315 -P 1	2 NURS 315 -P 2	-
*CONFLICT 1000-1030		2 NURS 327 - 2		2 NURS 327 - 2		
1000-1030	-	2 NURS 315 -P 1	2 NURS 315 -P 2	2 NURS 315 -P 1	2 NURS 315 -P 2	-
*CONFLICT 1030-1100		2 NURS 327 - 2		2 NURS 327 - 2		
1030-1100	-	2 NURS 315 -P 1	2 NURS 315 -P 2	2 NURS 315 -P 1	2 NURS 315 -P 2	-

EXHIBIT E-2

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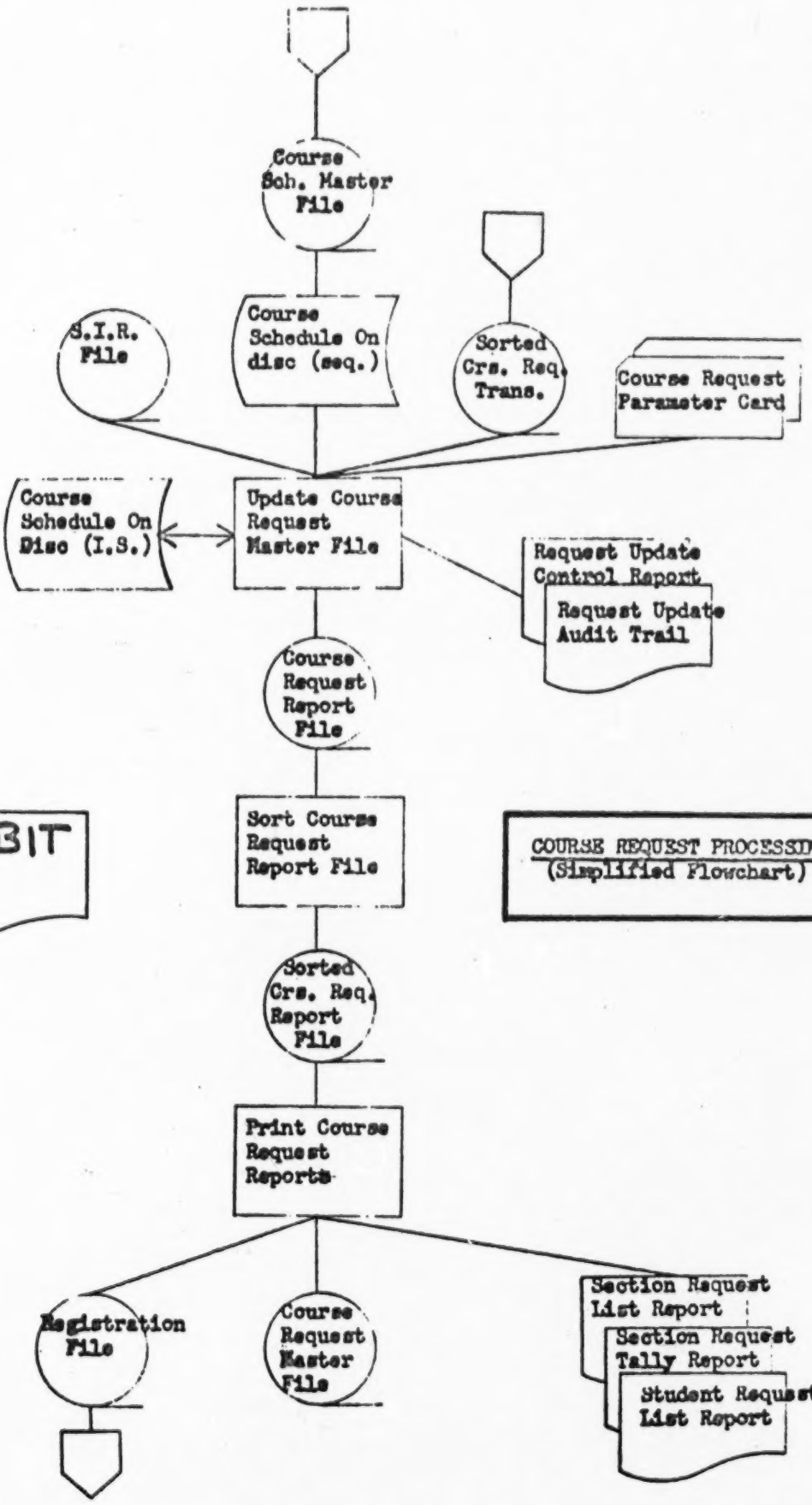
Course Sch. Master File
Course Schedule On disc (seq.)
S.I.R. File
Sorted Crs. Req. Trans.
Course Request Parameter Card
Course Schedule On Disc (I.S.)
Update Course Request Master File
Request Update Control Report
Request Update Audit Trail
Course Request Report File
Sort Course Request Report File
Sorted Crs. Req. Report File
Print Course Request Reports
Registration File
Course Request Master File
Section Request List Report
Section Request Tally Report
Student Request List Report

EXHIBIT F

COURSE REQUEST PROCESSING
(Simplified Flowchart)

200

EXHIBIT G-1

201 **COURSE REQUEST**

SOCIAL SECURITY NUMBER

FOR OFFICIAL USE ONLY

0 Add 3 Change 5 Delete

1 Priority 1 Overload

Last Name First Middle/Maiden

Current Local Address

City State Zip

Current Local Phone

FOR COMING SEMESTER

Spring Fall Summer Post

Fr. Soph. Jr. Sr. Student-at-Large Graduate Student Grad. with Masters

1 Pass/Fail 2 Audit

COURSE REFERENCE NO.

SEM HRS: FOR VARIABLE CREDIT COURSES ONLY

ALTERNATE COURSE REFERENCE NO.

1 Priority

FOR OFFICIAL USE ONLY

1 Change 2 Delete

1 Grad Credit 2 Undergrad Credit

1 Time Conflict Override

1 Pass Fail 2 Audit

1 Priority

1 Change 2 Delete

1 Grad Credit 2 Undergrad Credit

1 Time Conflict Override

WRITE YOUR NUMERALS LIKE THIS

1 2 3 4 5 6 7 8 9 0

FOLLOW INSTRUCTIONS ON BACK SIDE

ADVISOR'S SIGNATURE _____

REQUIRED FOR GRADUATE SCHOOL STUDENTS)

EXHIBIT G-2

12/11/71 NORTHERN ILLINOIS UNIVERSITY REPORT C2002

SEMESTER 71/2 REQUEST UPDATE AUDIT TRAIL PAGE 1039

BATCH ID CODE SSN NO CRN TRANS DATA EXPLANATION

341-42-8780 983325 WOODCOCK CHRISTI E SEX MAJR ATMPT EARND GD PTS RES OVLD CLSF SCDE FCDE PRI

L 920 KIMBERLY APTS F 260 120.0 120.0 321.0 ILL NO 4 CU 09 NO

DEKALB ILL 60115 815-758-7519

* U 1777 4 MATH 402 P A1 03.0

* U 4423 2 EDUC 430 5 03.0

G 4587 2 OTED 410 1 03.0 UNDERGRAD CR REQ ERROR

ALT 4587

U 4924 2 SPED 430 1 03.0 REQ FOR NON-EXIST SECT FATAL

03.0

006192 ADD 201 341-44-0062 3126

006192 ADD 201 341-44-0062 6326

006192 ADD 201 341-44-0062 6376

006192 ADD 201 341-44-0062 6380 1

1

1

341-44-0062 011210 BENEDIK DOLORES AMATO SEX MAJR ATMPT EARND GD PTS RES OVLD CLSF SCDE FCDE PRI

L 5142 SO FAIRVIEW F 850 063.0 096.0 195.0 ILL NO 4 CU 11 NO

DOWNERS GROVE ILL 60515 312-852-4740

U L 3126 4 GEOG 275 1 03.0 LINK REQUIREMNTS,UNSAT

* U 6326 4 PSYC 428 1 03.0

U 6376 4 SOCI 463 1 03.0

* U 6380 4 SOCI 473 3 PASS/FAIL 03.0

61

20

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EXHIBIT H-1

NORTHERN ILLINOIS UNIVERSITY
SECTION REQUEST TALLY

05/28/71 REPORT C3302
SEMESTER 71/2 PAGE 0014

FULL COURSE NUMBER C DEPT CRSE SECT REF	COURSE TITLE	FRSH	SOPH	JR & UNCL	SR & PG	SAL WO/M	GRAD WO/M	GRAD W/M	CAP	LIMIT	PREV ENRL	CURR REM	CURR REQ	STATUS
	*** COURSE TOTALS ***		1		4				108			100	5	95
1 FINA 420 - 1 1247	INVESTMENT PRINCIPLES				1				50			50	-	[illegible]
1 FINA 420 - 2 1248	INVESTMENT PRINCIPLES		2		2				50			50	4	45
1 FINA 420 - 3 1249	INVESTMENT PRINCIPLES				2								2	2-
1 FINA 420 - 4 1250	INVESTMENT PRINCIPLES				3				50			50	3	47
1 FINA 420 - 5 1251	INVESTMENT PRINCIPLES								50			50		50
	*** COURSE TOTALS ***		2		8				200			200	10	190
1 FINA 421 - 1 1252	PORTFOLIO ANALYSIS & MGMT				1			1	50			50	2	48
	*** COURSE TOTALS ***				1			1	50			50	2	48
1 FINA 450 - 1 1253	MONEY & BANKING				2				45			45	2	43
1 FINA 450 - 2 1254	MONEY & BANKING								45			45		45
	*** COURSE TOTALS ***				2				90			90	2	88
1 FINA 451 - 1 1255	COMMERCIAL BANK MANAGEMENT				4				45			45	4	41
	*** COURSE TOTALS ***				4				45			45	4	41
1 FINA 459X- 1 1256	INTRO TO DATA PROCESS SYSTEMS								20			20		20
1 FINA 459X- 2 1257	INTRO TO DATA PROCESS SYSTEMS			1					20			20	1	19
1 FINA 459X- 3 1258	INTRO TO DATA PROCESS SYSTEMS								20			20		20
1 FINA 459X- 4 1259	INTRO TO DATA PROCESS SYSTEMS			1					20			20	1	19
1 FINA 459X- 5 1260	INTRO TO DATA PROCESS SYSTEMS								125			125		125
	*** COURSE TOTALS ***		2						205			205	2	203

EXHIBIT H-2

NORTHERN ILLINOIS UNIVERSITY
SECTION REQUEST LIST

05/28/71 REPORT C3302
SEMESTER 71/2 PAGE 3572

FULL COURSE NUMBER C DEPT CRSE SECT REF	COURSE TITLE	FRSH	SOPH	JR & UNCL	SR & PG	SAL WO/M	GRAD WO/M	GRAD W/M	CAP	LIMIT	PREV ENRL	CURR REM	CURR REQ	STATUS
4 PHYS 150 - 1 4487	PHYSICS		1		6				150			150	7	143

SOC SEC NO.	NAME	SEX	MAJ	CLASS	REQ TYP CR HRS	CR TYP
000-00-0021				UNCL UNDERGRAD	3.0	
000-00-0037				UNCL UNDERGRAD	3.0	
000-00-0039				UNCL UNDERGRAD	3.0	
000-00-0045				UNCL UNDERGRAD	3.0	
355-44-3763	FORTMAN ELIZABETH ANN	F	055	JUNIOR	3.0	
351-42-8072	HART CURTIS A	M	750	JUNIOR	3.0	
340-46-3262	PARUS DENNIS FRANCIS	M	987	FRESHMAN	3.0	

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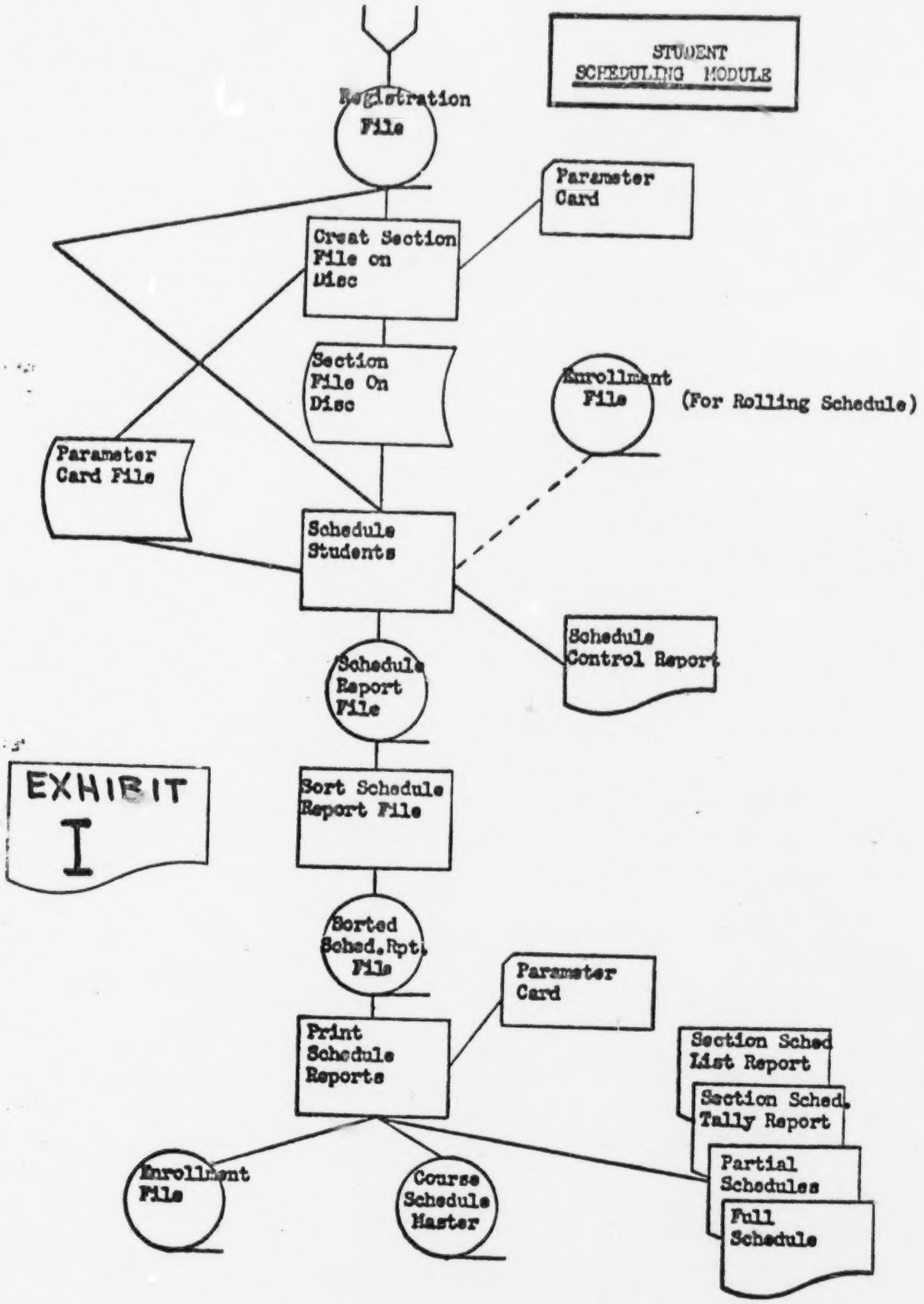

EXHIBIT J

003-40-6938 BARRY JEROME JOHN M

REF.NO	DEPT	CRSE SECT	HRS	CREDIT	TIME	DAYS	BLDG	ROOM	INSTRUCTOR
0498	BIOS	661 - 1	0.0	GRAD	4:00	TTH	MO	210	HAMPEL A
1650	BIOS	600E-P 6	3.0	GRAD	7:00	T	MO	426	SOUTHERN W
3155	PHYS	251S- C			***** REQUEST ERROR *****				
5293	CHEM	331 - 1	3.0	U.G.	1:00	MWF	FR	143	PIATAK D

TOTAL SEM. HOURS 6.0

MAJ: BIOLOGICAL SCIENCES-BIOLOGY
CODE: 055
NIU STUDENT SCHEDULE

01/10/72
SPRING 1972

BARRY JEROME JOHN
126 HARRISON ST
DEKALB ILL 60115

EXHIBIT J

315-54-1738 WOODS BERNICE ADLAIDE F

REF.NO	DEPT	CRSE SECT	HRS	CREDIT	TIME	DAYS	BLDG	ROOM	INSTRUCTOR
1550	HMEC	383 -P 1	3.0	U.G.	11:00	TTH	WZ	110	KEIM R
4550	NURS	302 - 1	3.0	U.G.	6:00	T	MO	231	FRANK I
4910	SPED	300 - 2	3.0	U.G.	3:30	TTH	FR	143	WINTERFELD
5052	HMEC	152 - 1	3.0	U.G.	3:00	MW	WZ	AUD	METCALFE P
5081	HMEC	434 - 1	3.0	U.G.	6:00	TH	WZ	110	REED M
5808	GEOL	103 - 1	3.0	U.G.	12:30	TTH	MO	231	CASELLA C

TOTAL SEM. HOURS 18.0

MAJ: FAMILY LIFE&CHILD DEVELOPMENT
CODE: 423
NIU STUDENT SCHEDULE

01/10/72
SPRING 1972

WOODS BERNICE ADLAIDE
810 KIMBERLY APT102
DEKALB ILL 60115

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EXHIBIT K-1

07/15/71 — NORTHERN ILLINOIS UNIVERSITY — REPORT D1502
SEMESTER 71/3 — SCHEDULED SECTION TALLY — PAGE 0252

FULL COURSE NUMBER C	DEPT	CRSE	SECT	REF	COURSE TITLE	FRSH	SOPH	JR & UNCL	SR & PG	SAL NO/M	GRAD NO/M	GRAD M/M	CAP	LIMIT	TOT ENRL	CURR REM	STATUS
8	MILS	10.	1	4440	INTRODUCT TO MILITARY SCIENCE	2							30	26	2	28	28
8	MILS	101	2	2955	INTRODUCT TO MILITARY SCIENCE	1	1	1					30	24	3	27	27
					*** COURSE TOTALS ***	3	1	1					60	50	5	55	55
8	MILS	201	1	9474	INTERMED MILITARY SCIENCE	6							20	12	6	14	14
8	MILS	201	2	9475	INTERMED MILITARY SCIENCE	3							20	15	3	17	17
					*** COURSE TOTALS ***	9							40	27	9	31	31
8	MILS	301	1	9476	ADVANCED MILITARY		2		2				20	14	4	16	16
8	MILS	301	2	9477	ADVANCED MILITARY SCIENCE		7						20	12	7	13	13
					*** COURSE TOTALS ***		9		2				40	26	11	29	29
8	MILS	401	1	9478	ADVANCED MILITARY SCIENCE		7	3		2			20	6	12	8	8
8	MILS	401	2	9479	ADVANCED MILITARY SCIENCE		2						20	16	2	18	18
					*** COURSE TOTALS ***		9	3		2			40	22	14	26	26

24

05/28/71 — NORTHERN ILLINOIS UNIVERSITY — REPORT D1502
SEMESTER 71/2 — SCHEDULED SECTION LIST — PAGE 3572

EXHIBIT K-2

FULL COURSE NUMBER C	DEPT	CRSE	SECT	REF	COURSE TITLE	FRSH	SOPH	JR & UNCL	SR & PG	SAL NO/M	GRAD NO/M	GRAD M/M	CAP	LIMIT	TOT ENRL	CURR REM	STATUS
4	PHYS	150	1	4487	PHYSICS			6					150		7	143	143

SOC SEC NO.	NAME	SEX	MAJ	CLASS	REQ TYP CR HRS	CR TYP
000-00-0021				UNCL UNDERGRAD	3.0	
000-00-0037				UNCL UNDERGRAD	3.0	
000-00-0039				UNCL UNDERGRAD	3.0	
000-00-0045				UNCL UNDERGRAD	3.0	
355-44-3763	FORTMAN ELIZABETH ANN	F	055	JUNIOR	3.0	
351-42-8072	HART CURTIS A	M	750	JUNIOR	3.0	
340-46-3262	PARUS DENNIS FRANCIS	M	987	FRESHMAN	3.0	

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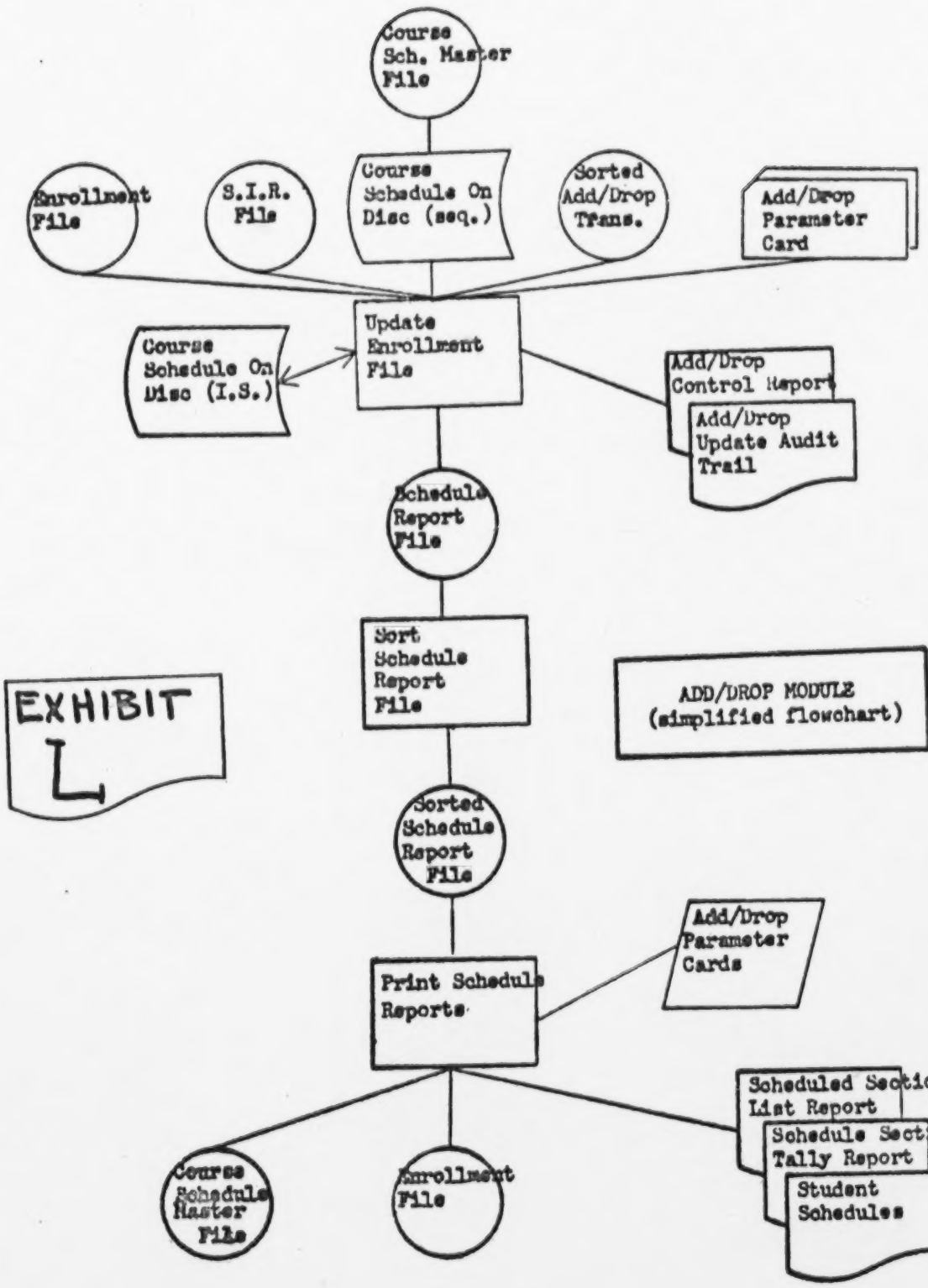

EXHIBIT L

ADD/DROP MODULE
(simplified flowchart)

206

EXHIBIT M-1

REGISTRATION COPY

302 **ADD/DROP** AS A RESULT OF THIS CHANGE MY ACADEMIC LOAD IS_____HRS.

Name_____ Last First MI

PHONE ( ) DATE

☐ Spring ☐ Fall ☐ Summer ☐ Post

☐ Fr. ☐ Soph. ☐ Jr. ☐ Sr. ☐ Student-at-large ☐ Graduate Student ☐ Grad. with Masters

SOCIAL SECURITY NUMBER

FOR OFFICIAL USE ONLY

2 ☐ Delete 1 ☐ Overload

COURSE REFERENCE NO.

USE FOR VARIABLE CREDIT COURSES ONLY SEM HRS

0 ☐ Drop 2 ☐ Add 1 ☐ Pass/Fail 2 ☐ Audit

FOR OFFICIAL USE ONLY

☐ Graduate Credit ☐ Undergrad Credit ☐ Time Conflict Override

WRITE YOUR NUMERALS LIKE THIS

1 2 3 4 5 6 7 8 9 0

Advisor's Signature:

Signature of Graduate School Dean or Director of Registration (U.G.):

FOLLOW INSTRUCTIONS

26

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NORTHERN ILLINOIS UNIVERSITY
ADD/DROP UPDATE AUDIT TRAIL

12/04/71
SEMESTER 71/1

REPORT E1502
PAGE 1174

EXHIBIT M-2

BATCH ID	CODE	SSN NO	CRN	TRANS DATA	EXPLANATION
350-20-2583	416767	JENSEN CLEIS M		SEX MAJR ATMPT EARND GD PTS RES OVLD CLSF SCDE FCDE PRI	
	L	115 S BENTON		F 892 037.0 107.0 141.0 ILL NO 4 CU 01 NO	
				PALATINE ILL 60067 312-358-1137	
				U 2034 2 PE-W 117 5 01.0	
				U 4289 4 [illegible] 1 03.0	
				* U 4426 4 LIBS 412 1 03.0	
				* U 4905 4 MATH 301 3 03.0	WITHDRAWN
				U 5392 4 SOCI 351 1 03.0	
				U 5397 4 SOCI 355 1 03.0	
#02450	DRP 302	350-30-4557	1746 1746	2EDUC699 1	DROPPED COURSE
#02450	ADD 302	350-30-4557	1746	03	
#02450	DRP 302	350-30-4557	9050 9050	2EDUC695 3	DROPPED COURSE
#02450	ADD 302	350-30-4557	9050	03	
350-30-4557	493294	LABELLE BEVERLY M		SEX MAJR ATMPT EARND GD PTS RES OVLD CLSF SCDE FCDE PRI	
	L	803 HILLCREST APT 1		F 235 033.0 033.0 123.0 ILL NO 8 CG 01 NO	
				DEKALB ILL 60115 815-758-1698	
				G 1731 2 EDUC 643 1 03.0	
				G 1746 2 EDUC 699 1 03.0	
				G 9050 2 EDUC 695 3 03.0	
				G 9527 4 SOCI 575 1 03.0	

33